

ARE YOU
READY
TO SEE
BEYOND?



HYPERION
HEAVY DUTY SORTING MACHINE

A 4 wavelength, multi-spectral system as standard with combined RGB and IR in a single 4K sensor: This innovative feature produces a totally aligned view. This feature is a valuable advantage when detecting defects in similar coloured products which respond differently to infrared, such as foreign bodies, inorganic defects, etc. This single camera is a considerable cost saving when compared to the market standard of requiring two cameras.

New front and rear hyperspectral cameras: optional, for a selection quality never achieved before.

High resolution, multispectral, 4 wavelength cameras SWIR (1024 pixel): These cameras achieve previously unattainable results in the recognizing of polymers, selecting of shell and foreign bodies in dried fruits, and also in detecting chemical differences not visible to the human eye.

Simultaneous use of RGB, SWIR and IR optical systems: Having up to 8 frequencies available, while the market standard for this type of sorter is normally no more than 4 frequencies.

Flat spectrum LED (to reproduce the natural sunlight spectrum): State of the art full spectrum LED, without the low light areas typical of standard white LED. This makes it possible to detect even the slightest colour variations.

Dual 15" displays: Two 15" touch screens, which continuously display the key information necessary to monitor the machine effectively.

Smart, custom designed cameras, comprising hardware and software made in Italy, which incorporate an integrated elaboration and analysis system.

State of the art ejectors @ 3.2mm pitch: Custom designed and specified to achieve maximum sustained velocity while their compact design almost doubles the number of ejector valves in each chute. This feature requires less compressed air yet increases production capacity and reduces the amount of good product being rejected.

RISE-UP system: This feature makes the ejector bank adjustable which allows one to locate the ejectors close to the product stream, almost half the distance compared to other sorters on the market. This reduces errors normally caused by the uneven fall speed of the product being sorted.

Multi wavelength LED with focusing lens: This feature focuses the light only where its desired and achieves high illumination at a low consumption.

Automatic air pressure regulator: The regulator automatically adjusts the pressure in the machine based on the product selected. This allows the operator to adjust the air consumption accurately to minimize good product being rejected.

**3U VISION HYPERION:
CUSTOMIZABLE,
MODULAR, VERSATILE,
READY FOR EVERYTHING.**



Morphological analysis of the product: Extrapolating statistics of products such as average width, average height, percentage of wreckage, etc.

Automatic control and equalization of vibrator speed: Necessary to obtain a deep and uniform stream of product in all the channels.

User friendly programming system: The software has been developed so that creating or modifying recipes does not require a qualified technician.

IOT ready, totally compatible with IOT 4.0: This enables the exchange of information related to estimated throughput, estimated reject quantity, number of ejections, morphological product features, etc.

Integrated Remote-Service system: In order to quickly assist the operator in real time, and avoiding the need for on-site intervention, saving the expense of a technician, regardless of your location.

Full accessibility: easily removable transparent polycarbonate side panels for quick inspection, cleaning and maintenance.

Multifunctional frame: made of painted metal or stainless steel suitable for all the most demanding and critical applications.

Modular configurations: allow the combined installation of different optical systems, both on front and on back to of the chute to suit all requirements.

Optional metal-detector operating simultaneously with the optical sorting.

Feeding system optimised for each specific product.





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HYPERION

HEAVY DUTY SORTING MACHINE



HP600



HP1200

H²	front and rear hyperspectral cameras
SR²	front and rear multispectral cameras
H	front hyperspectral cameras
SR	front multispectral cameras
HSR	front hyperspectral and rear multispectral cameras



3U Vision,
all new,
except 40
years of
experience